

SEQUENCE LISTING

5 (1) GENERAL INFORMATION:

- (i) APPLICANTS: June, Carl H. and Thompson, Craig B.
- (ii) TITLE OF INVENTION: METHODS FOR ENHANCING T CELL SURVIVAL  
BY AUGMENTING BCL-XL PROTEIN LEVELS
- 10 (iii) NUMBER OF SEQUENCES: 2
- (iv) CORRESPONDENCE ADDRESS:
- 15 (A) ADDRESSEE: LAHIVE & COCKFIELD  
(B) STREET: 60 State Street, Suite 510  
(C) CITY: Boston  
(D) STATE: Massachusetts  
(E) COUNTRY: USA  
(F) ZIP: 02109-1875
- 20 (v) COMPUTER READABLE FORM:
- (A) MEDIUM TYPE: Floppy disk  
(B) COMPUTER: IBM PC compatible  
(C) OPERATING SYSTEM: PC-DOS/MS-DOS  
25 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
- (vi) CURRENT APPLICATION DATA:
- (A) APPLICATION NUMBER: US  
(B) FILING DATE:
- 30 (vii) PRIOR APPLICATION DATA:
- (A) APPLICATION NUMBER: US  
(B) FILING DATE: 04-MAY-1995
- 35 (viii) ATTORNEY/AGENT INFORMATION:
- (A) NAME: DeConti, Giulio A. (GAD)  
(B) REGISTRATION NUMBER: 31,503  
(C) REFERENCE/DOCKET NUMBER: RPI-034CP
- 40 (ix) TELECOMMUNICATION INFORMATION:
- (A) TELEPHONE: (617)227-7400  
(B) TELEFAX: (617)227-5941

45 (2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 926 base pairs  
(B) TYPE: nucleic acid  
50 (C) STRANDEDNESS: single  
(D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- 55 (ix) FEATURE:
- (A) NAME/KEY: CDS  
(B) LOCATION: 135..836

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

5	GAATCTCTTT	CTCTCCCTTC	AGAATCTTAT	CTTGGCTTTG	GATCTTAGAA	GAGAATCACT	60										
	AACCAGAGAC	GAGACTCAGT	GAGTGAGCAG	GTGTTTTTGA	CAATGGACTG	GTTGAGCCCA	120										
10	TCCCTATTAT	AAAA	ATG	TCT	CAG	AGC	AAC	CGG	GAG	CTG	GTG	GTT	GAC	TTT	170		
		Met	Ser	Gln	Ser	Asn	Arg	Glu	Leu	Val	Val	Asp	Phe				
		1				5						10					
15	CTC	TCC	TAC	AAG	CTT	TCC	CAG	AAA	GGA	TAC	AGC	TGG	AGT	CAG	TTT	AGT	218
	Leu	Ser	Tyr	Lys	Leu	Ser	Gln	Lys	Gly	Tyr	Ser	Trp	Ser	Gln	Phe	Ser	
			15					20					25				
20	GAT	GTG	GAA	GAG	AAC	AGG	ACT	GAG	GCC	CCA	GAA	GGG	ACT	GAA	TCG	GAG	266
	Asp	Val	Glu	Glu	Asn	Arg	Thr	Glu	Ala	Pro	Glu	Gly	Thr	Glu	Ser	Glu	
		30					35					40					
25	ATG	GAG	ACC	CCC	AGT	GCC	ATC	AAT	GGC	AAC	CCA	TCC	TGG	CAC	CTG	GCA	314
	Met	Glu	Thr	Pro	Ser	Ala	Ile	Asn	Gly	Asn	Pro	Ser	Trp	His	Leu	Ala	
		45				50					55					60	
30	GAC	AGC	CCC	GCG	GTG	AAT	GGA	GCC	ACT	GGC	CAC	AGC	AGC	AGT	TTG	GAT	362
	Asp	Ser	Pro	Ala	Val	Asn	Gly	Ala	Thr	Gly	His	Ser	Ser	Ser	Leu	Asp	
				65					70						75		
35	GCC	CGG	GAG	GTG	ATC	CCC	ATG	GCA	GCA	GTA	AAG	CAA	GCG	CTG	AGG	GAG	410
	Ala	Arg	Glu	Val	Ile	Pro	Met	Ala	Ala	Val	Lys	Gln	Ala	Leu	Arg	Glu	
				80					85					90			
40	GCA	GGC	GAC	GAG	TTT	GAA	CTG	CGG	TAC	CGG	CGG	GCA	TTC	AGT	GAC	CTG	458
	Ala	Gly	Asp	Glu	Phe	Glu	Leu	Arg	Tyr	Arg	Arg	Ala	Phe	Ser	Asp	Leu	
			95					100					105				
45	ACA	TCC	CAG	CTC	CAC	ATC	ACC	CCA	GGG	ACA	GCA	TAT	CAG	AGC	TTT	GAA	506
	Thr	Ser	Gln	Leu	His	Ile	Thr	Pro	Gly	Thr	Ala	Tyr	Gln	Ser	Phe	Glu	
			110				115					120					
50	CAG	GTA	GTG	AAT	GAA	CTC	TTC	CGG	GAT	GGG	GTA	AAC	TGG	GGT	CGC	ATT	554
	Gln	Val	Val	Asn	Glu	Leu	Phe	Arg	Asp	Gly	Val	Asn	Trp	Gly	Arg	Ile	
				125			130				135					140	
55	GTG	GCC	TTT	TTC	TCC	TTC	GGC	GGG	GCA	CTG	TGC	GTG	GAA	AGC	GTA	GAC	602
	Val	Ala	Phe	Phe	Ser	Phe	Gly	Gly	Ala	Leu	Cys	Val	Glu	Ser	Val	Asp	
					145					150					155		
60	AAG	GAG	ATG	CAG	GTA	TTG	GTG	AGT	CGG	ATC	GCA	GCT	TGG	ATG	GCC	ACT	650
	Lys	Glu	Met	Gln	Val	Leu	Val	Ser	Arg	Ile	Ala	Ala	Trp	Met	Ala	Thr	
				160				165						170			
65	TAC	CTG	AAT	GAC	CAC	CTA	GAG	CCT	TGG	ATC	CAG	GAG	AAC	GGC	GGC	TGG	698
	Tyr	Leu	Asn	Asp	His	Leu	Glu	Pro	Trp	Ile	Gln	Glu	Asn	Gly	Gly	Trp	
			175					180					185				
70	GAT	ACT	TTT	GTG	GAA	CTC	T										

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Leu Leu Gly Ser Leu Phe Ser Arg Lys  
225 230

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